#### **POWER IS OUR WORLD**

**50 Hz Diesel Generator Set** 

#### **About Product**

IDEA generator sets are designed to be used as backup or continuous power supply. They are subjected to detailed load and performance tests in our production facilities in order to provide ideal performance and safe usage.



## **Power Output Values**

Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	97 kVA	77,5 kW	140	90 kVA	72 kW	130

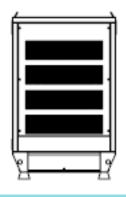
Standby Power (ESP): This rating is for the supply of continuous electrical power at variable load, in the event of utility power failure. No overload is permitted.

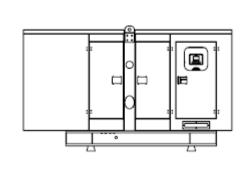
**Prime Power (PRP):** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

# **Weight And Dimensions**

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @7mt
Open	1000x1900x1550 mm	1125 kg	200 lt	ТВА
Soundproofed	1000x2700x1800 mm	1375 kg	200 lt	78







# IDEA

## **POWER IS OUR WORLD**

## **Engine**



Frequency		50 Hz	
Output Rating	kW	88	
Manufacturer and Model		DAEWOO 4DWD-110	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbo Charged & Intercooled	
Cylinders		4	
Bore and Stroke	mm	110 x 125	
Displacement	lt	4,75	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		16:1	
Engine Oil Capacity(Sump Only)	lt	14	
Coolant Capacity (incl.radiator)	lt	30	
Governor		Electronical	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	23,2	
75 % Load	lt/h	17,5	
50 % Load	lt/h	12,9	
EXHAUST SYSTEM			
Maximum Temperature	°C	ТВА	
Exhaust Gas Flow	m³/min	1 <mark>8,</mark> 4	
Maximum Allowed Back Pressure	kPA	TBA	
Exhaust Flange Size (Internal Dia.)	mm	60	
AIR SYSTEM			
Intake Air Flow	m³/min	7,3	
Total Cooling Air Flow	m³/min	TBA	
STARTING SYSTEM		Ψ	
Starter Motor	kW	7,5	
Battery Capacity	Ah	2x60	
Auxiliary Voltage	V	24	

## **Alternator**

Poles	4 pole		
Winding Connections	Star		
Insulation	Class H		
Enclosure	IP23		
Exciter System	Self regulating Brushless		
Voltage Regulator	AVR		
Steady State Voltage Regulation	± 1 %		
Bearing	Single bearing sealed		
Coupling	Flexible disc		
Cooling	Direct drive centrifugal blower fan		



#### POWER IS OUR WORLD

#### **Control Panel IDP300**

The new IDP300 genset controller is a cost effective modular genset controller ready for internet monitoring through plug-in modules.

**INDUSTRIAL RANGE** 

DATASHEET

Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.



Software features are complete with easy firmware upgrade through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, RS-232, Ethernet and GPRS.

The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.

### **Optional Equipments**

Some Optional Equipment IDEA Provides with Generator Sets;

- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, instrument panel, alternator, coil heaters,
- Synchronization systems,
- Generator output fuse,
- Mains generator transfer switches,
- Seismic solutions,
- Remote monitoring
- Other requested solutions

## **Reference Standards**

IDEA Generator Sets are CE approved and comply with the following standards;

- Power according to ISO 3046 and ISO 8528
- EN 12100, EN 13857, EN 60204
- 2006/42/CE Machinery Safety
- 2006/95/EC Low Voltage
- 2004/108/CE EMC
- Ambient reference conditions 1000 mbar, 25 °C, 30 % relative humidity ISO8528

All the information in this leaflet is intended for general purposes only. IDEA reserves the right to change the specifications without notice.



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